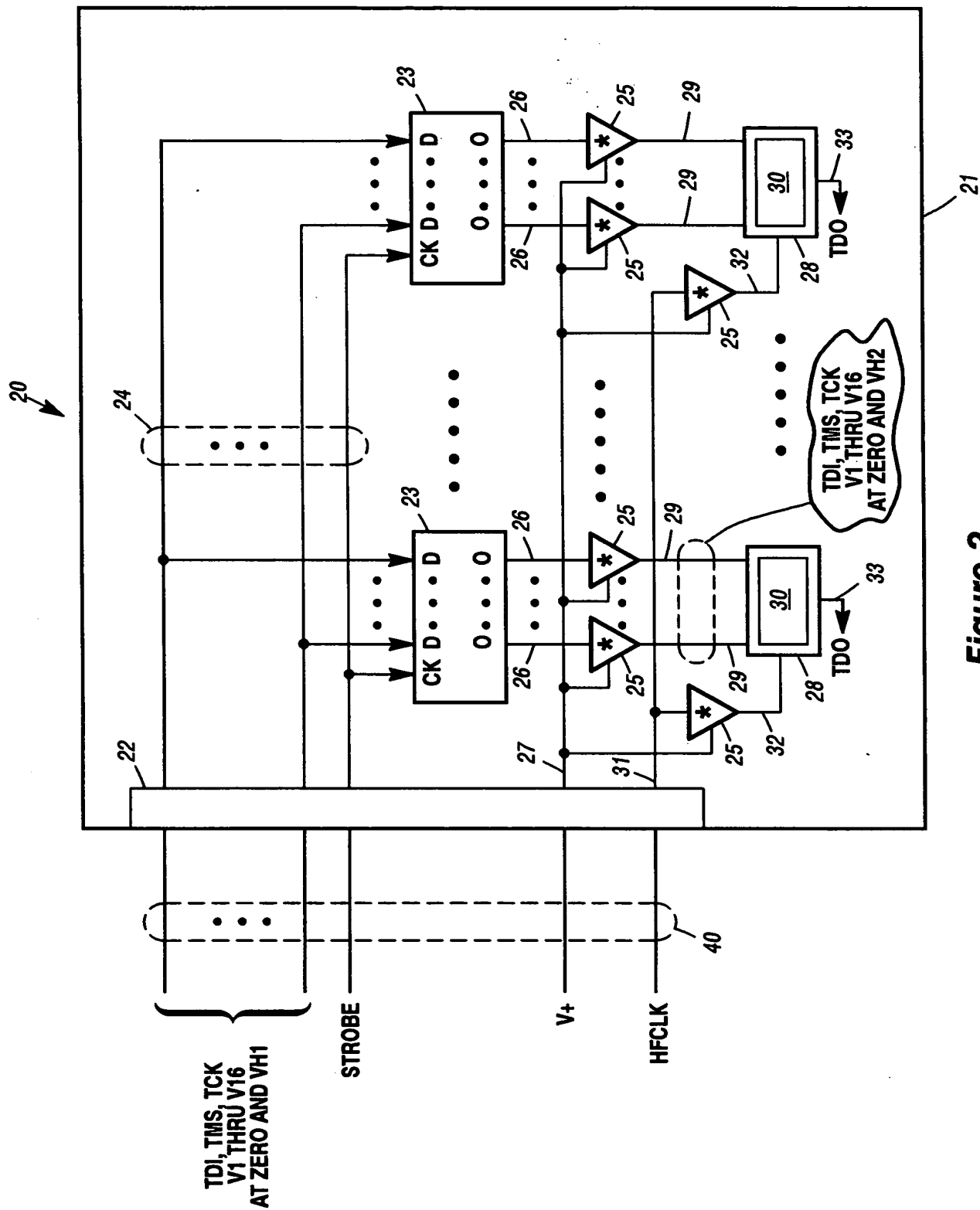
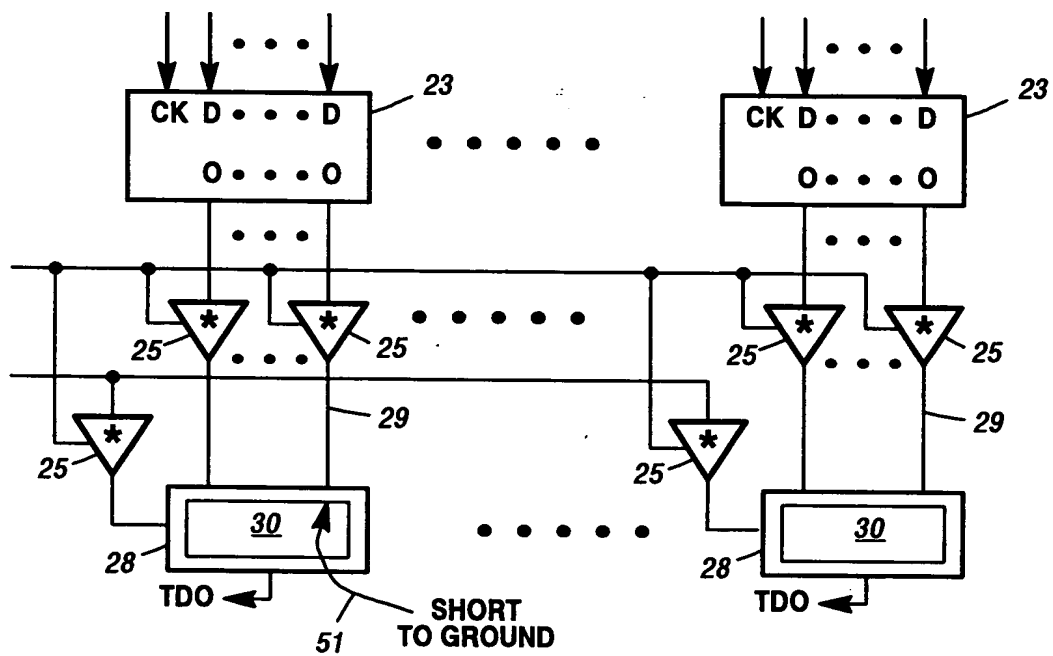


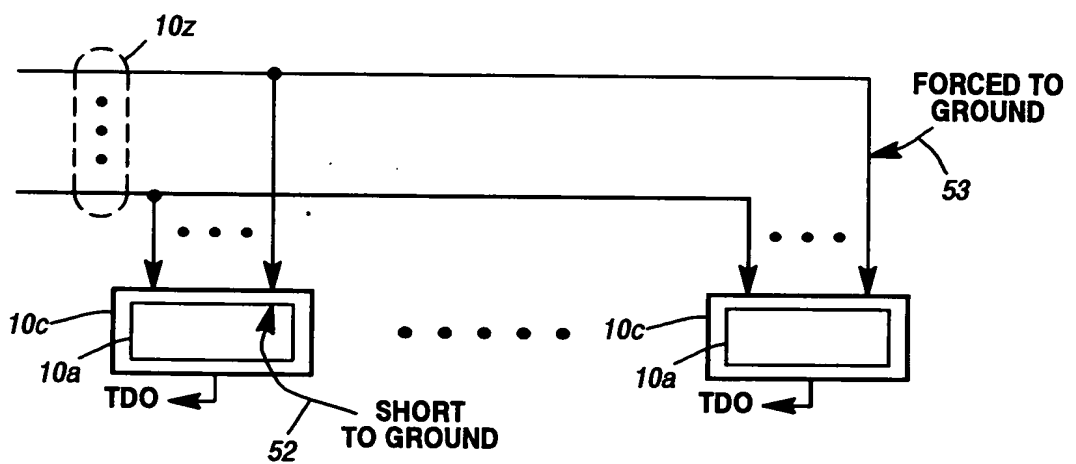
**Figure 1A**



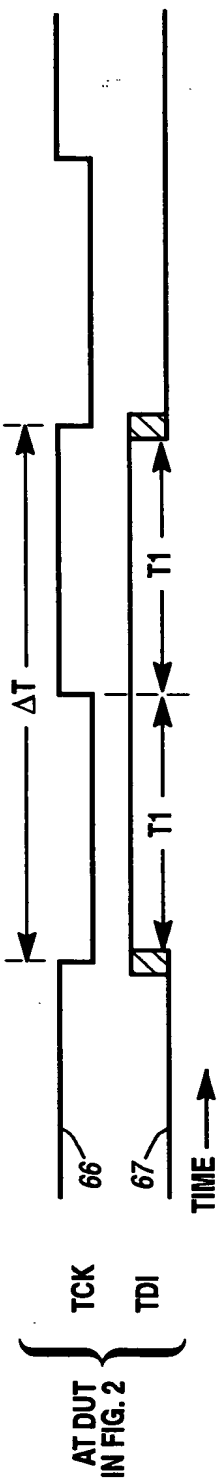
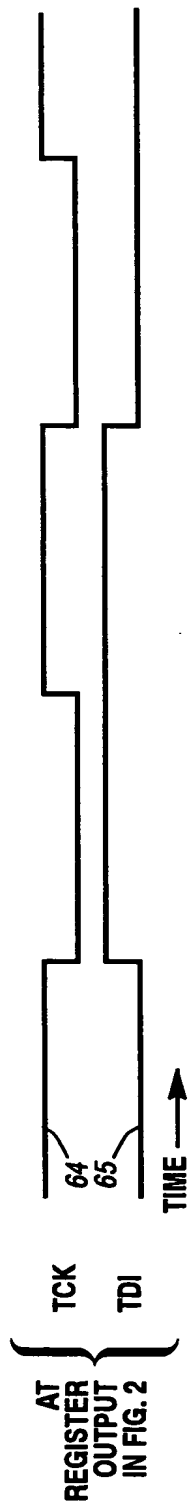
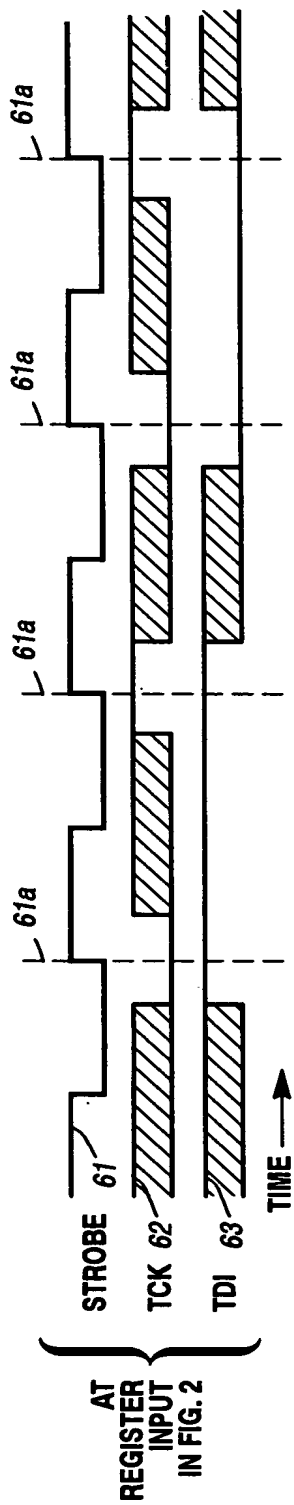
**Figure 2**



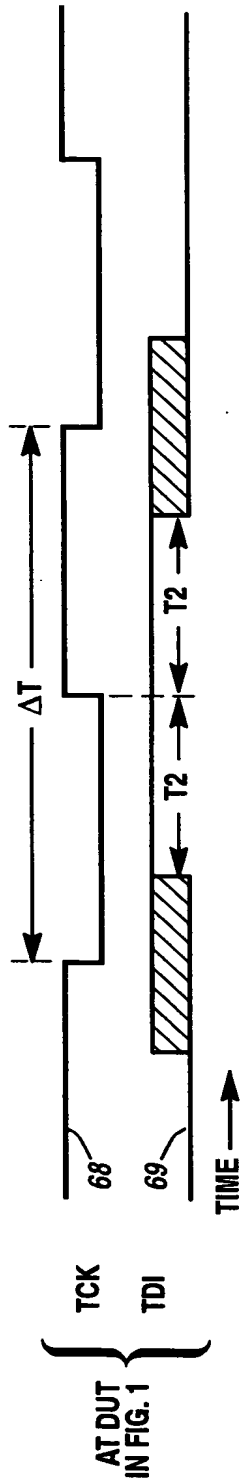
**Figure 3A**



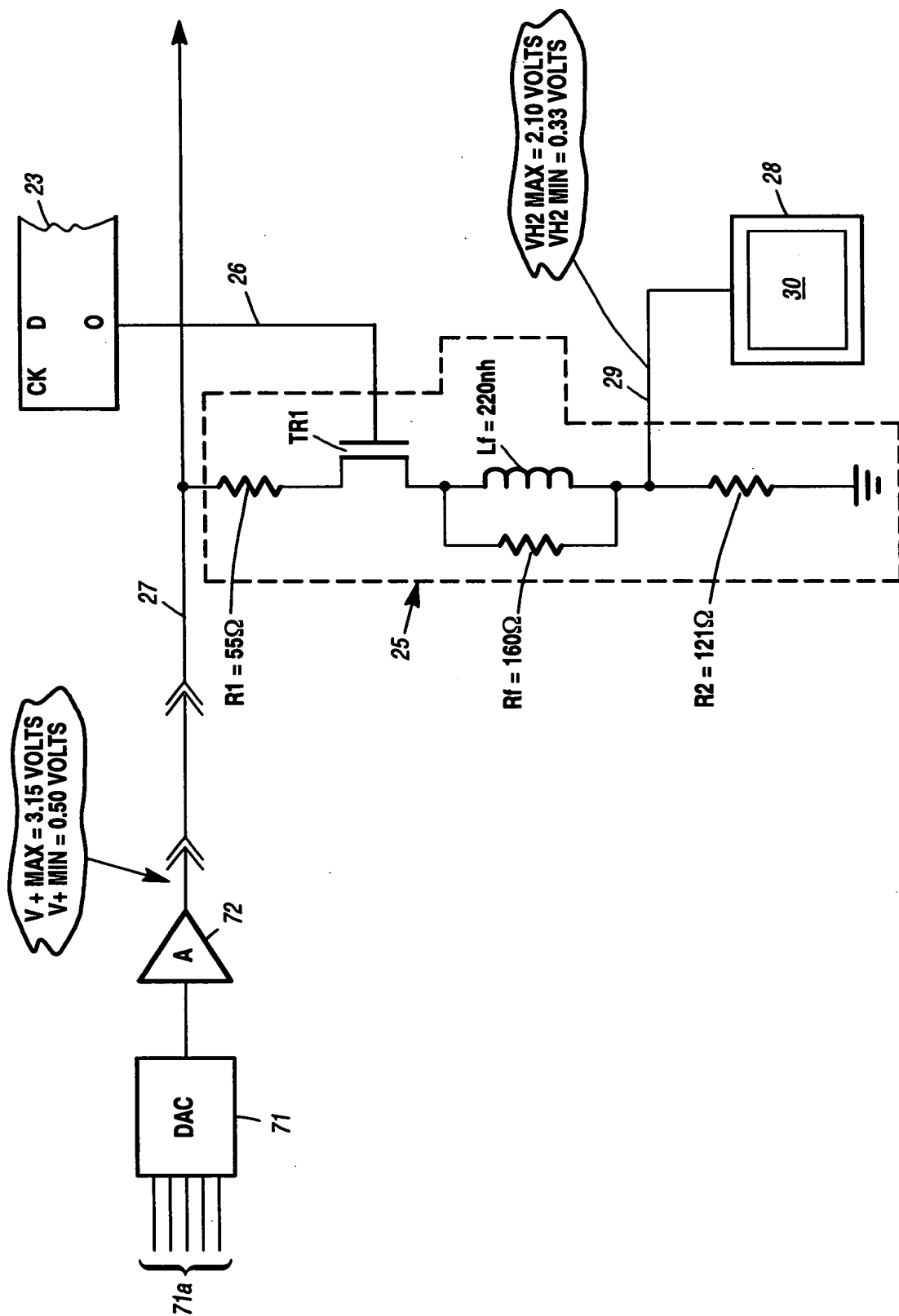
**Figure 3B**



**Figure 4A**



**Figure 4B**



**Figure 5**

**Eq. 1  $\sim$ MAX POWER = (MAX CURRENT)<sup>2</sup>(55 + R - ON + 121)**

**Eq. 2  $\sim$ MAX CURRENT =  $\frac{3.15}{55 + R - ON + 121}$**

**Eq. 3  $\sim$ R - ON =  $4.5\Omega \pm 50\%$**

**Eq. 4  $\sim$ MAX CURRENT =  $\frac{3.15}{55 + 2.25 + 121} = 17.6 \text{ ma}$**

**Eq. 5  $\sim$ MAX POWER =  $(17.6 \text{ ma})^2 (55 + 2.25 + 127) = 55.6 \text{ mw}$**

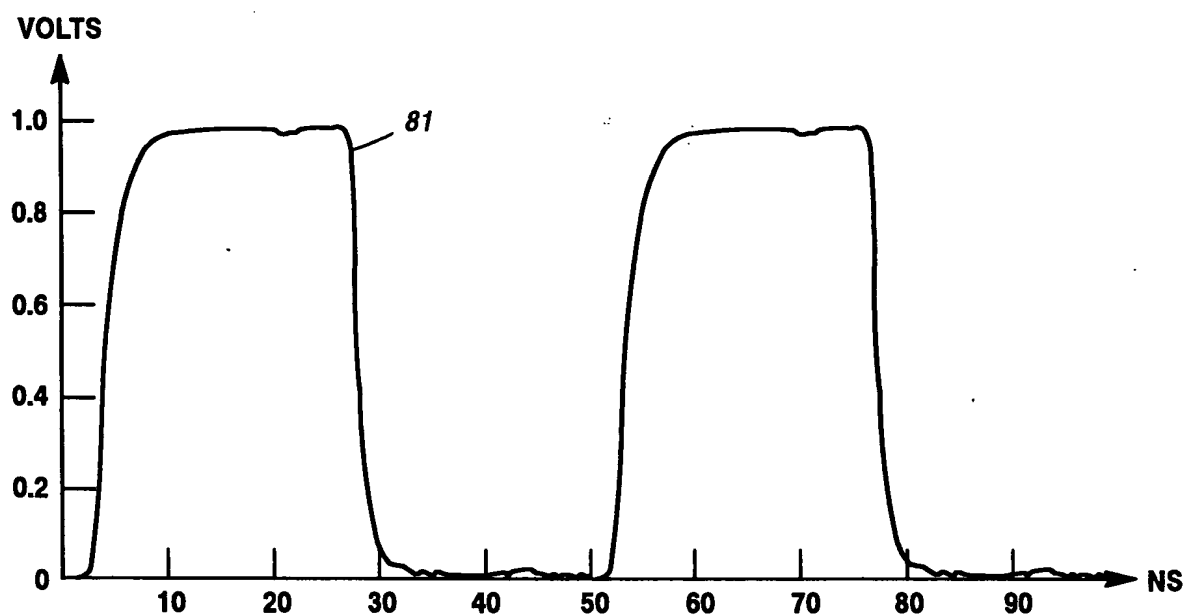
**Eq. 6  $\sim$ Compare: EDGE 692  
MIN POWER PER CHIP = 1.5 WATTS  
MAX POWER PER CHIP = 3.0 WATTS  
TWO TRANSLATORS PER CHIP**

**Eq. 7  $\sim$ 0.055 WATTS MAX VS 1.50 WATTS MAX**

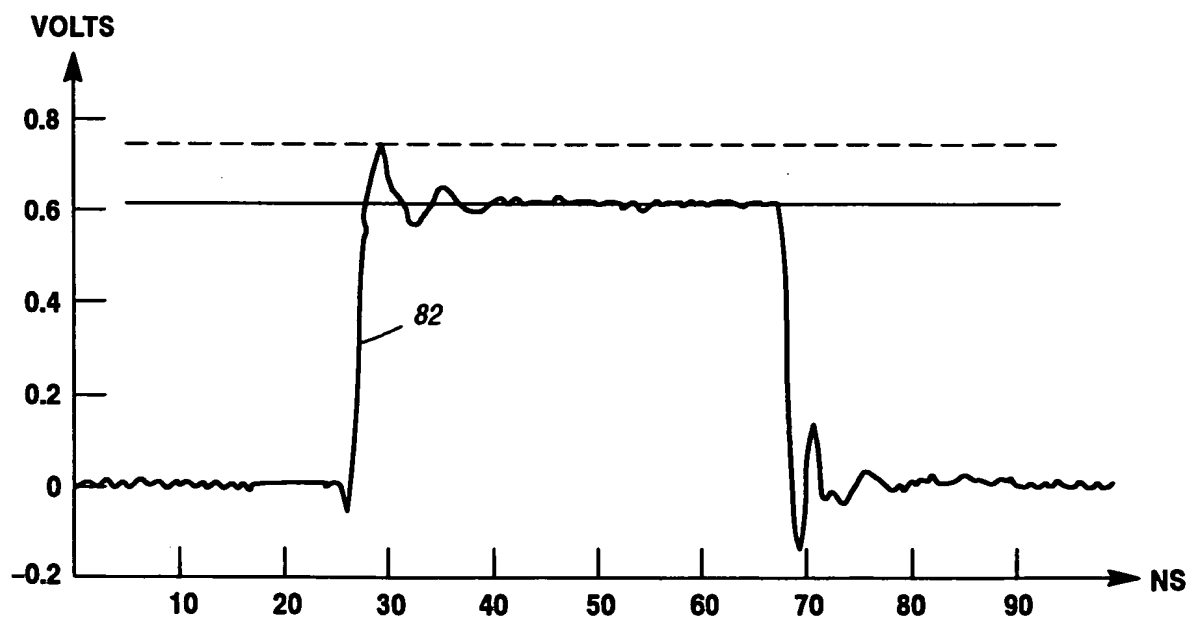
**Eq. 8  $\sim$ 0.000 WATTS MIN VS 0.75 WATTS MIN**

**Eq. 9  $\sim$ 0.027 WATTS AVE VS 1.12 WATTS AVE**

**Figure 6**



**Figure 7A**



**Figure 7B**

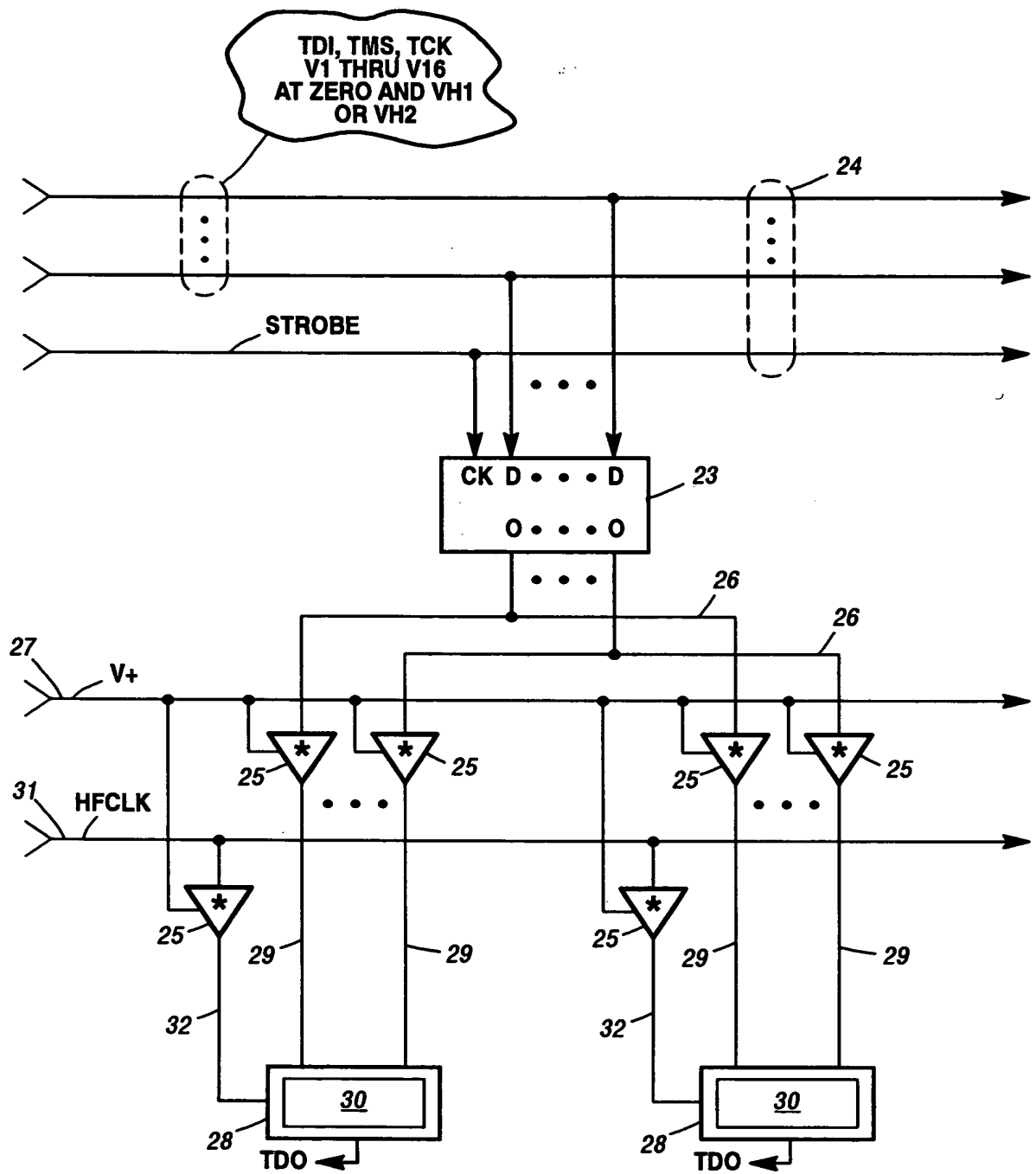




**Figure 8**



**Figure 9**



**Figure 10**